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ABSTRACT OF THE INVENTION

5 A multi-wavelength laser source is provided including a pump laser unit, a gain section and an output. The pump laser unit generates an energy signal, which is applied to the gain section. The gain section includes a gain medium with having a superstructure grating forming a distributed Fabry-Perot-like structure. The superstructure grating causes a multi-wavelength laser signal to be generated when the energy signal is applied to the gain medium. The multi-wavelength laser signal is
10 then released at the output.